

App. No. 09/432,904
Amdt. Dated November 23, 2004
Reply to Office Action of October 4, 2004

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (cancelled).

Claim 2 (currently amended): ~~The A medical device as recited in claim 1,~~ adapted for application of fluid pressure to a human foot comprising:

an interior elastic sheet for engaging a human foot; and

an exterior fabric sheet joined with said interior sheet, the interior sheet and the exterior sheet together forming a foot wrap wherein:

said foot wrap encompasses an inflatable bladder within a region between and including the interior sheet and the exterior sheet, the inflatable bladder being disposed to apply pressure to the sole of a human foot;

said inflatable bladder comprises at least a portion of said interior sheet; and

the elasticity of said interior sheet functioning to exert a lateral force on said exterior sheet such that said inflatable bladder is maintained substantially wrinkle-free when applied to a human foot.

Claim 3 (currently amended): ~~The A medical device as recited in claim 1,~~ adapted for application of fluid pressure to a human foot comprising:

an interior elastic sheet for engaging a human foot; and

an exterior fabric sheet joined with said interior sheet, the interior sheet and the exterior sheet together forming a foot wrap wherein:

said foot wrap encompasses an inflatable bladder within a region between and including the interior sheet and the exterior sheet, the inflatable bladder being disposed to apply pressure to the sole of a human foot;

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said inflatable bladder is formed between said interior sheet and said exterior sheet and comprises a portion of said interior sheet, a portion of said exterior sheet and an inlet for inflation thereof; and

the elasticity of said interior sheet functioning to exert a lateral force on said exterior sheet such that said inflatable bladder is maintained substantially wrinkle-free when applied to a human foot.

Claim 4 (previously presented): The medical device as recited in claim 3, wherein said inlet comprises a tubular connector opening into said inflatable bladder for connecting said inflatable bladder with a source of pressurized fluid.

Claim 5 (original): The medical device as recited in claim 3, wherein said portion of said interior sheet and said portion of said exterior sheet are perimetrically sealed to form said inflatable bladder.

Claim 6 (original): The medical device as recited in claim 5, wherein said inflatable bladder is formed by heat-welding said interior sheet to said exterior sheet.

Claim 7 (original): The medical device as recited in claim 3, wherein said interior sheet comprises a vapor permeable construction.

Claim 8 (previously presented): A medical device adapted for application of fluid pressure to a human foot comprising:

an interior elastic fabric sheet for engaging a human foot;

an exterior fabric sheet joined with said interior sheet in a manner forming a foot wrap having an integral bladder formed in a main portion of said foot wrap between said interior sheet and said exterior sheet;

a first tab extending from the main portion of said foot wrap for wrapping around the arch of a human foot and releasably securing said foot wrap to the human foot with the bladder formed in the main portion of said foot wrap positioned so as to act against the sole of the foot when inflated; and

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an elongate second tab extending from the main portion of said foot wrap for wrapping around the heel for maintaining the position of the bladder against the sole of the foot.

Claim 9 (original): The medical device as recited in claim 8, wherein said second tab is generally perpendicular to said first tab when said foot wrap is laid flat.

Claim 10 (original): The medical device as recited in claim 9, said medical device further comprising a third tab, said third tab being generally opposed to said first tab.

Claim 11 (previously presented): The medical device as recited in claim 10, wherein:

said exterior sheet consists essentially of a hook-type connector compatible base material;

said first tab comprises a releasable hook-type connector permanently attached to a distal end thereof, said first and third tabs having dimensions sufficient for said foot wrap to wrap around the arch of a human foot with the distal end of said first tab overlapping a distal end of said third tab; and

said second tab comprises a second releasable hook-type connector permanently attached to a distal end thereof, said second tab having a length dimension sufficient for said foot wrap to wrap around the heel of a human foot with the distal end of said second tab overlapping said first tab when said first and third tabs are wrapped about the arch of a human foot.

Claim 12 (previously presented): The medical device as recited in claim 10, wherein:

said exterior sheet consists essentially of a loop-type connector compatible base material;

said third tab comprises a first releasable hook-type connector permanently attached to a distal end thereof, said first and third tabs having dimensions sufficient for said foot wrap to wrap around the arch of a human foot with the distal end of said third tab overlapping a distal end of said first tab; and

said second tab comprises a second releasable hook-type connector permanently attached to a distal end thereof, said second tab having a length dimension sufficient for said foot wrap to wrap around the heel of a human foot with the distal end of said second tab overlapping said first tab when said first and third tabs are wrapped about the arch of a human foot.

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Claim 13 (previously presented): A medical device adapted for cyclical application of fluid pressure to a human foot comprising:

a foot wrap for engaging a human foot, said foot wrap comprising an integral inflatable bladder and an outer surface comprising a base material compatible with the hooks of a hook and loop-type fastener;

a first tab comprising a plurality of hooks of a hook and loop-type fastener appended to said foot wrap for wrapping around the arch of a human foot for releasably securing said foot wrap to the human foot with the bladder positioned so as to act directly against the sole of the foot when the hooks contact the outer surface of said foot wrap; and

an elongate second tab comprising a plurality of hooks of a hook and loop-type fastener appended to said foot wrap for releasably wrapping around the heel and releasably securing to the outside surface of said foot wrap for maintaining a position of the bladder against the sole of the foot.

Claim 14 (original): The medical device as recited in claim 13, wherein said second tab is generally perpendicular to said first tab when said foot wrap is laid flat.

Claim 15 (original): The medical device as recited in claim 14, said medical device further comprising a third tab appended to said first wrap, said third tab being generally opposed to said first tab.

Claim 16 (previously presented) The medical device as recited in claim 15, wherein:

said first tab comprises a first releasable hook-type connector attached to a distal end thereof, said first and third tabs having dimensions sufficient for said foot wrap to wrap around the arch of a human foot with the distal end of said first tab overlapping a distal end of said third tab; and

said second tab comprises a second releasable hook-type connector attached to a distal end thereof, said second tab having a length dimension sufficient for said foot wrap to wrap around the heel of a human foot with the distal end of said second tab overlapping said first tab when said first and third tabs are wrapped about the arch of a human foot.

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Claim 17 (currently amended): A medical device for cyclical application of fluid pressure to a human foot comprising:

an interior elastic fabric sheet for engaging a human foot;

an exterior fabric sheet consisting essentially of a hook-type connector compatible base material, said exterior fabric sheet being less extensible than said interior fabric sheet, said exterior sheet being joined with said interior sheet in a manner forming a one-piece foot wrap having:

an integral inflatable bladder formed between said interior and exterior sheets;

a first tab for releasably securing said foot wrap to a human foot by wrapping around the arch;

an elongate second tab for wrapping around the heel, said second tab being generally perpendicular to said first tab when said foot wrap is laid flat;

a third tab generally opposed to said first tab; and

a main portion positioned generally between said first, second, and third tabs;

a first releasable hook-type connector attached to a distal end of said first tab, said first and third tabs having dimensions sufficient for said foot wrap to wrap around the arch of a human foot with the distal end of the first tab overlapping a distal end of said third tab; and

a second releasable hook-type connector attached to a distal end of said second tab, said second tab having a length dimension sufficient for said foot wrap to wrap around the heel of a human foot with the distal end of the second tab overlapping the main portion.

Claim 18 (original): The medical device of claim 17, wherein the inner surface of said exterior sheet comprises a heat-weldable laminate and the inner surface of said interior sheet comprises a heat-weldable laminate, said exterior sheet being at least heat welded to said interior sheet to form said one-piece foot wrap.

Claim 19 (previously presented): The medical device as recited in claim 18, said medical device further comprising a tubular connector opening into said inflatable bladder for connecting said integral inflatable bladder with a source of pressurized fluid.

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Claim 20 (previously presented): A medical device for cyclical application of fluid pressure to a human foot comprising:

- an interior elastic air impermeable fabric sheet for engaging a human foot, an inner surface of the interior sheet comprising a heat-weldable laminate, an outer surface of the interior sheet comprising a springy, open pile inner surface;

- an exterior fabric sheet consisting essentially of a base material that is compatible to releasably engage hook-type connector material, an inner surface of the exterior sheet comprising a heat-weldable laminate, the exterior sheet being less extensible than the interior sheet, the exterior sheet being heat welded to the interior sheet in a manner forming a one-piece foot wrap having:

 - an integral inflatable bladder formed between the inner surfaces of the interior and exterior sheets;

 - a main portion to engage the sole of a human foot;

 - a first extension from the main portion for releasably securing the foot wrap to a human foot by wrapping around the arch;

 - an elongate second extension from the main portion for releasably securing the foot wrap to a human foot by wrapping around the heel, the second extension being generally perpendicular to said first extension when the foot wrap is laid flat;

 - a third extension from the main portion generally opposed to the first extension, the first extension being larger and longer than the third extension; and

 - a first releasable hook-type connector permanently attached to an inner surface of a distal end of the third extension, the first and third extensions having dimensions sufficient for the foot wrap to wrap completely around the arch of a human foot with the distal end of the third extension overlapping a distal end of the first extension;

 - a second releasable hook-type connector permanently attached to an inner surface of a distal end of the second extension, the second extension having a length dimension sufficient for the foot wrap to wrap completely around the heel of a human foot with the distal end of the second extension overlapping the first extension; and

 - a tubular connector opening into the integral, inflatable bladder for connecting the integral inflatable bladder with a source of pressurized fluid.